



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-15 BYPASS RATIO: 1.0
 UNIQUE ID NUMBER: 1PW010 PRESSURE RATIO (π_{00}): 16.8
 COMBUSTOR: Reduced emissions
 ENGINE TYPE: MTF RATED THRUST (F_{00}) (kN): 68.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	7.1	46.1	65.5	17.3
AS % OF ORIGINAL LIMIT	36.3	39.0	89.0	65.9
AS % OF CAEP/2 LIMIT (NO _x)			111.3	
AS % OF CAEP/4 LIMIT (NO _x)			130.7	
AS % OF CAEP/6 LIMIT (NO _x)			141.4	
AS % OF CAEP/8 LIMIT (NO _x)			166.2	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.178	0.24	1.03	19.40	15.7
CLIMB OUT	85	2.2	0.945	0.28	1.15	15.10	
APPROACH	30	4.0	0.340	0.55	2.77	6.90	
IDLE	7	26.0	0.148	1.46	11.00	3.20	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			486	428	2955	4144	-
NUMBER OF ENGINES				3	3	2	3
NUMBER OF TESTS				8	8	5	5
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				6.1	42.6	59.6	15.7
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	266-297
ABS HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	
AROM (%)	

MANUFACTURER: Pratt & Whitney
 TEST ORGANIZATION: P&WA
 TEST LOCATION: East Hartford, CT
 TEST DATES: 07/12/1979-19/06/1980

REMARKS

1. Reduced Emissions Combustor incorporated 1/1/84

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)